DEVICE AUTHORITY

Use Case: Floodwater Sensors

Situation

Flood-prone areas require a network of government–managed flood sensors and actuators that warn emergency agencies of flooding in advance so that they can direct people and traffic away from the vulnerable areas.

Most of these OT devices have been in service for up to 20 years, and now are being connected to the Internet via secure gateways to gain real-time access to flood data. Modern, PKI-based security is required to mitigate the previously weak credentials on these devices not designed to be online as part of the IoT.
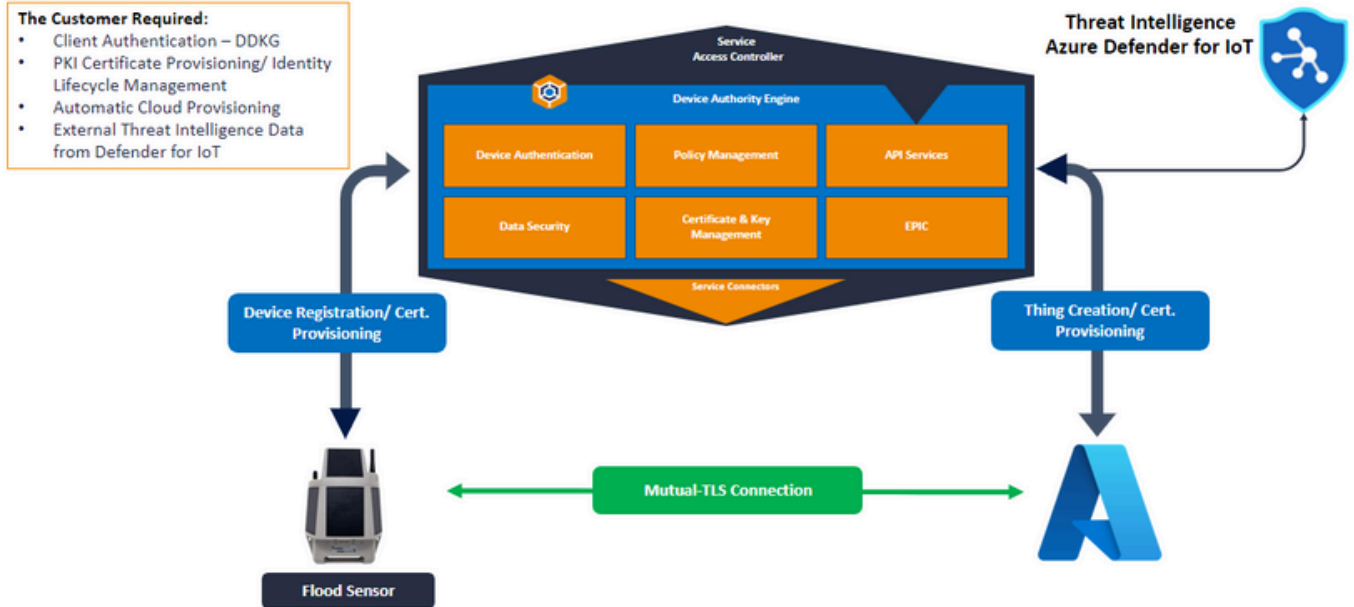
Solution

Device Authority KeyScaler is used to provide:

- Generation of device root of trust using DDKG for Automated Device Provisioning of secure gateways

- PKI Services for IoT utilizing x.509 Certificates issues by the enterprise CA

- Identity Lifecycle Management including automatic provisioning to the cloud

- External Threat Intelligence Data from Defender for IoT to inform device authorization safety

Public Safety: Floodwater Sensors

Conclusion

- Generation of device root of trust using DDKG for Automated Device Provisioning of secure gateways

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